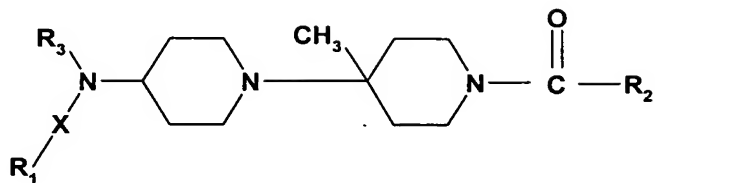


## Abstract

Disclosed are compounds of formula I:



wherein  $R_1$ ,  $R_2$ ,  $R_3$  and  $X$  are as defined herein, in free or salt form, which are useful as CCR5 inhibitors, e.g. in the prevention or treatment of disorders mediated by interactions between chemokine receptors and their ligands.